

व्यापक परिचलन में मसौदा

ACBACD	संक्रांक
डब्लू आर डी 23/11-32	5 th Dec'11

तकनीकी समिति : जल संसाधन परियोजनाओं के कार्य मापन एवं लागत विश्लेषण विषय समिति (डब्लू आर डी 23)

- जल संसाधन विभाग परिषद् डब्लू आर डी सी के सभी सदस्य
- जल संसाधन परियोजनाओं के कार्य मापन एवं लागत विश्लेषण की विषय समिति डब्लू आर डी 23 के सभी सदस्य
- रूचि रखने वाले अन्य निकाय

महोदय/यों,

उपरोक्त तकनीकी कमेटी की 14वीं बैठक के निर्णय अनुसार निम्नलिखित मसौदों की एक कापी हमारी वेबसाइट www.bis.org.in पर पोस्ट की गई है।

Doc No.	Title
23(566)	निर्जलीकरण की प्रति इकाई दर के विश्लेषण का प्रपत्र (आई एस 14590 का पहला पुनरीक्षण)

आपसे अनुरोध है कि आप कृपया इस मसौदों का अवलोकन करें और अपनी सम्मतियों को यह बताते हुए भेजे कि अंततः यदि यह मसौदा राष्ट्रीय मानक के रूप में प्रकाशित हो जाये तो इस पर अमल करने में आपके व्यवसाय अथवा कारोबार में क्या कठिनाइयाँ आ सकती है।

सम्मतियाँ भेजने की अंतिम तिथि 15-02-2012 है।

आपसे अनुरोध है कि उपरोक्त तिथि तक हमें अपनी सम्मतियाँ संलग्न प्रोफोर्म में भरकर wrd.bis@gmail.com पर भेजने का कष्ट करें। वेबसाइट से मसौदा डाउनलोड करने में कठिनाई अनुभव करने की स्थिति में आप हमें हार्ड कॉपी के लिए लिख भी सकते हैं। यदि उपरोक्त तिथि तक हमें कोई सम्मति प्राप्त नहीं होती है अथवा सम्मति में केवल भाषा संबंधी त्रुटि पाई जाती है तो, उपरोक्त प्रलेख पर हम आपकी अनुमति मानकर उसे अंतिम रूप दे देंगे। यदि कोई सम्मति तकनीकी प्रकृति की पाई जाती है तो, उसे विषय समिति के अध्यक्ष के परामर्श से अंतिम रूप दिया जाएगा अथवा आवश्यकता होने पर उसे विषय समिति के परामर्श के बाद अंतिम रूप दे दिया जाएगा।

धन्यवाद।

निम्नलिखित

जे. सी. अरोड़ा
प्रमुख (जल संसाधन विभाग)

**DRAFT IN WIDE
CIRCULATION**

REFERENCE	DATE
WRD 23/ T- 32	5 th Dec'11

TECHNICAL COMMITTEE: MEASUREMENT AND COST ANALYSIS OF WORKS FOR RIVER VALLEY PROJECTS
SECTIONAL COMMITTEE, WRD 23

ADDRESSED TO:

- a) ALL MEMBERS OF WATER RESOURCES DIVISION COUNCIL (WRDC)
- b) ALL MEMBERS OF MEASUREMENT AND COST ANALYSIS OF WORKS FOR RIVER VALLEY
PROJECTS SECTIONAL COMMITTEE, WRD 23
- c) OTHERS' INTERESTED

Dear Sir(s),

As per the decision taken in the 14th meeting of the sectional committee, we are posting the draft standard as mentioned below on the BIS website www.bis.org.in for your ready reference. **The additions in the document are underlined and the deletions are also suitably indicated.**

Doc No.	Title
Doc. WRD 23 (566)	Proforma for analysis of unit rate of dewatering (first revision of IS 14590)

Kindly examine these drafts standards and forward your views stating any difficulties which you are likely to experience in your business or profession, if these are finally adopted as National Standards.

Last date for comments : 15-02-2012

Comments, if any, may please be made in the format given in the drafts and mailed to the undersigned at the above address. Comments will be appreciated in electronic form either as soft copies (MS Word) or can be mailed to wrdbis@gmail.com. In case you have any difficulty in accessing the document at our website, please write to us for a hard copy.

In case no comments are received or comments received are of editorial nature, you will kindly permit us to presume your approval for the above document as finalized. However, in case of comments technical in nature are received then they may be finalized, either in consultation with the Chairman, Sectional Committee or referred to the Sectional committee for further necessary action, if so desired by the Chairman, Sectional Committee.

Thanking you,

Yours faithfully,

[J.C. ARORA]
Head (Water Resources)

Encl: As above.

Sending Comments

WC-Draft	Document No.
	Title:

Sl. No.	Committee/ Organisation/ Individual	Clause/ Subclause Paragraph Figure/Table	Type of Comment [General/ Technical/ Editorial]	Comments (Justification for change)	Proposed Change
1.					

Indian Standard
PROFORMA FOR ANALYSIS OF UNIT RATE OF DEWATING
(First Revision of IS 14590)

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Last date for receipt of comments is 15th Feb'12

FOREWORD

(Formal clauses of the foreword will be added later)

In order to drain water out of the site of work and to maintain the work area in a fit condition dewatering is often resorted to during construction of river valley projects. As dewatering is extensively resorted to in river valley projects being executed all over the country it is essential that practices relating to estimation of dewatering cost are standardized.

First published in 1998, this standard lays down a proforma for analysis of unit rate of dewatering. In view of the experiences gained while using the standard, this revision is being undertaken to bring the existing clauses in sync with the practices in the field. Relevant taxes and duties, wherever applicable, have been added in calculation of unit rates. This standard is one of a series of standards already published which lay down proforma for analysis of rates of concrete, masonry, cyclic drilling and blasting, earthwork, shuttering/formwork, rock excavation and embankment construction.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test or analysis, should be rounded off in accordance with IS 2: 1960 'Rules for rounding off numerical values (revised)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard
PROFORMA FOR ANALYSIS OF UNIT RATE OF DEWATING
(First Revision of IS 14590)

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Last date for receipt of comments is 15th Feb'12

1 SCOPE

This standard lays down a proforma intended for analysis of unit rate of dewatering carried out in river valley projects.

2 REFERENCES

The following standard is a necessary adjunct to this standard and contain provisions which through reference in this text, constitute provision of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below:

IS No.	Title
11590:1995	Guidelines for working out unit rate cost of the construction equipment used for river valley projects (first revision)

3 PROFORMA

3.1 The proforma recommended for use in analysis of unit rate of dewatering is given in Table 1.

TABLE 1. PROFORMA FOR ANALYSIS OF UNIT RATE OF DEWATERING

(Clause 3.1)

Sl. No. (1)	Item (2)	Unit (3)	Quantity (4)	Rate (5)	Amount (6)
i)	Equipment				
	Dewatering Equipment (Diesel/Electric/ Pneumatic) Use cost as per IS 11590	h			
ii)	Installation				
	1) Pipes	m			
	2) Reducers, bends well points, casings, etc	Nos.			
	3) Valves	Nos.			
	4) Labour for Installation	Lumpsum			
iii)	Overhead and Miscellaneous				
	1) Labour for dewatering (other than running of equipment)	Man-month			
	2) Temporary construction	Lumpsum			
	3) Lighting	Lumpsum			
	4) Maintenance of installations and temporary constructions	Lumpsum			
	5) Demobilisation of equipment, installations, etc	Lumpsum			

TABLE 1 PROFORMA FOR ANALYSIS OF UNIT RATE OF DEWATERING *Contd.*

Sl. No. (1)	Item (2)	Unit (3)	Quantity (4)	Rate (5)	Amount (6)
6)	Contingencies	Lumpsum			
7)	<u>Taxes and duties: This list is just indicative</u>				
	1) <u>Sales Tax on works</u>				
	2) <u>Services tax</u>				
	3) <u>Labour cess</u>				
	4) <u>VAT</u>				
	5) <u>Entry tax</u>				
iv)	Analysis				
1)	Total equipment/pump running hours at one location before shift to another location, h	h			
2)	Power rating of the equipment, P	kW			
3)	<i>Total Cost (C_T) = use cost of equipment (C_E) + cost of installation (C_I) + cost of overheads & miscellaneous (C_o)</i>				
4)	Residual value of pipes, reducers, bends. etc, C_R				
5)	Cost of dewatering = $\frac{C_T - C_R}{P \times h}$				₹ / kW h

NOTES

1 Contractors overheads and profit are generally taken as 20% of prime cost.

2 The rate analysis for different sources of power (DG, Grid power, etc.) should be worked separately.